



STERIGERMS 12 Litres User's Manual



STERIGERMS International LLP

Unit 3 – 8th floor Ellerman LLP

12 – 20 Camomile street

LONDON EC3A 7PT

Phone: +33 (0)4.90.11.37.35 - Fax: +33 (0)4.90.11.37.30

VAT number : GB 8722853 06

TABLE OF CONTENTS

1.	OVERVIEW	7
1.1.	Introduction (Figure 1)	7
1.2.	Characteristics.....	8
1.2.1.	Physical characteristics.....	8
1.2.2.	Electrical characteristics.....	8
2.	OPERATION	9
2.1.	Connection.....	9
2.2.	Power-up	9
2.2.1.	Power-up after shutdown	9
2.2.2.	Standard power-up.....	10
2.3.	Exploitation cycle	12
2.4.	Case of wrong password.....	21
3.	SHUTDOWN	21
3.1.	Standard shutdown.....	21
3.2.	Complete shutdown	21
3.3.	Emergency shutdown.....	22
4.	ALARMS	23
5.	MAINTENANCE.....	25
5.1.	Table of periodic operations	25
5.2.	Cleaning of the treatment compartment	25
5.3.	Control of oil level	26
5.4.	Control of cooling liquid level.....	27
5.5.	Exchange of the cover gasket.....	28
5.6.	Exchange of the particle filter	28
6.	WARNING AND SAFETY SIGNS.....	31
7.	HUMAN – MACHINE DIALOG	33
8.	WARRANTY.....	53

LIST OF HUMAN – MACHINE INTERFACE SCREENS

TABLE OF CONTENTS	3
Window 1 - Welcome Please press the “Enter” button	33
Window 2 - Select a user And type your password	34
Window 3 – Correct password	35
Window 4 – Wrong password Please wait and type it again.....	36
Window 5 - Warning (first window).....	37
Window 6 – Warning (second window)	38
Window 7 - Warning (third window).....	39
Window 8 – Select an operation.....	40
Window 9 - Descent of the piston	41
Window 10 - Ejection of the compressed waste product.....	42
Window 11 - Closing Do you really want to shut down the device	43
Window 12 – Press Start to Launch the cycle	44
Window 13 - Press Confirm to launch the cycle	45
Window 14 – Start compression	46
Window 15 - Heating.....	47
Window 16 – Start threshold	48
Window 17 - Cooling	49
Window 18 – End of cycle.....	50
Window 19 – Cleaning of the machine	51
Window 20 - Machine error Only administrator can enter.....	52

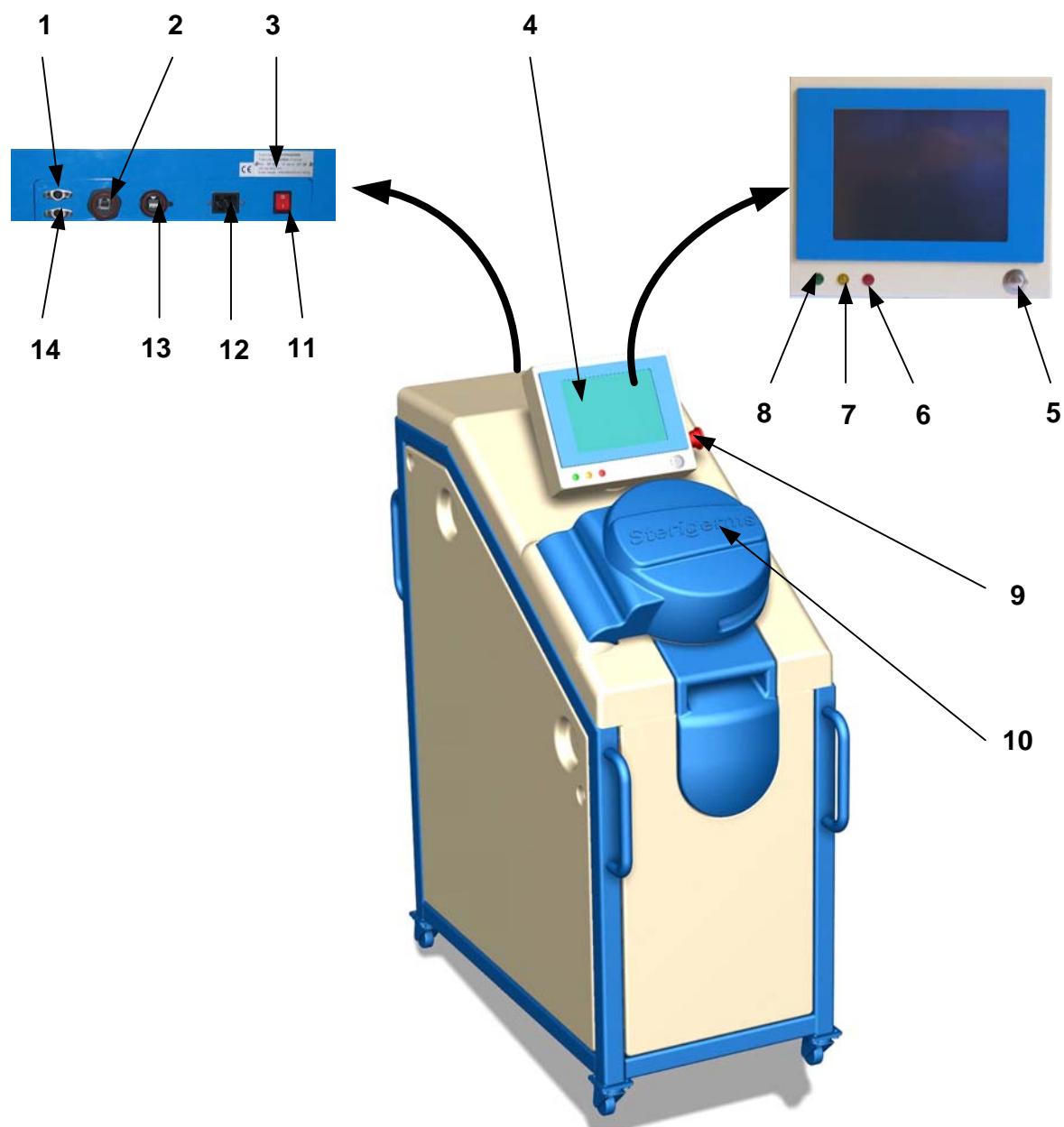


Figure 1 - STERIGERMS

1. OVERVIEW

1.1. Introduction (Figure 1)

Thank you for choosing STERIGERMS for the decontamination of your IMW (*Infectious Medical Waste*).

STERIGERMS ensures treatment of Infectious Medical Waste, such as dressing, yellow containers used for disposal of needles and of stinging and cutting objects, syringes, diapers, probes, blood bags, catheters, bandages, gloves ...

Combining volume reduction and decontamination by heating, STERIGERMS allows turning potentially infectious waste into a flat-shaped compressed waste product disposable as normal household waste.

STERIGERMS is easy to use thanks to its touch screen and easy to operate, as it only requires a 16-Ampere power supply. STERIGERMS can be operated close to the location of origin of the waste, thus limiting the risks of contamination implied by the transport and handling of yellow bags.

STERIGERMS is composed of the following elements:

- A locking cover (10) allowing access to the waste treatment compartment
- A control console (4) composed of:
 - a touch screen allowing human-machine dialog
 - a red indicator light (6): when lit, signals a major incident
 - a yellow indicator light (7): when lit, signals a minor incident without any impacts on the on-going cycle
 - a green indicator light (8): when lit, indicates correct operation
 - a pushbutton (5) to power up the control console
 - an emergency knock-off switch (9) to switch off mains power supply, equipped with a removable key to unlock the cover
- At the rear, a connection panel with the following connections:
 - a nameplate (3)
 - a main power-up switch (11) with light indication
 - a socket (12) to connect an external power supply
 - four connection elements not used for standard operation:
 - a USB connector (13)
 - a socket (14) to connect a keyboard
 - a socket (1) to connect a mouse
 - a socket (2) for an Ethernet link.

1.2. Characteristics

1.2.1. Physical characteristics

LENGTH (mm)	DEPTH (mm)	HEIGHT (mm)	WEIGHT (kg)
460	1 050	1 120	140

1.2.2. Electrical characteristics

- Power supply tension : 230V
- Frequency : 50/60Hz

2. OPERATION

Caution: Any identified malfunction of STERIGERMS is displayed on the banner of each window and must be reported to the administrator.

2.1. Connection

Caution: Before connecting a device, always check that the power supply is of type "16A - 230V" with earth connection (alternative current, 16 Amperes).

Connect the power cable to the socket (1, Figure 2) of STERIGERMS and to the external power supply.

2.2. Power-up

Caution: When powering up the equipment for the first time, contact the administrator to unlock STERIGERMS.

There are two ways of powering up STERIGERMS:

- Power-up after shutdown
- Standard power-up.

2.2.1. Power-up after shutdown

- You must perform this type of power-up after a complete shutdown of the device due to a technical issue or a transfer of the device to another location.

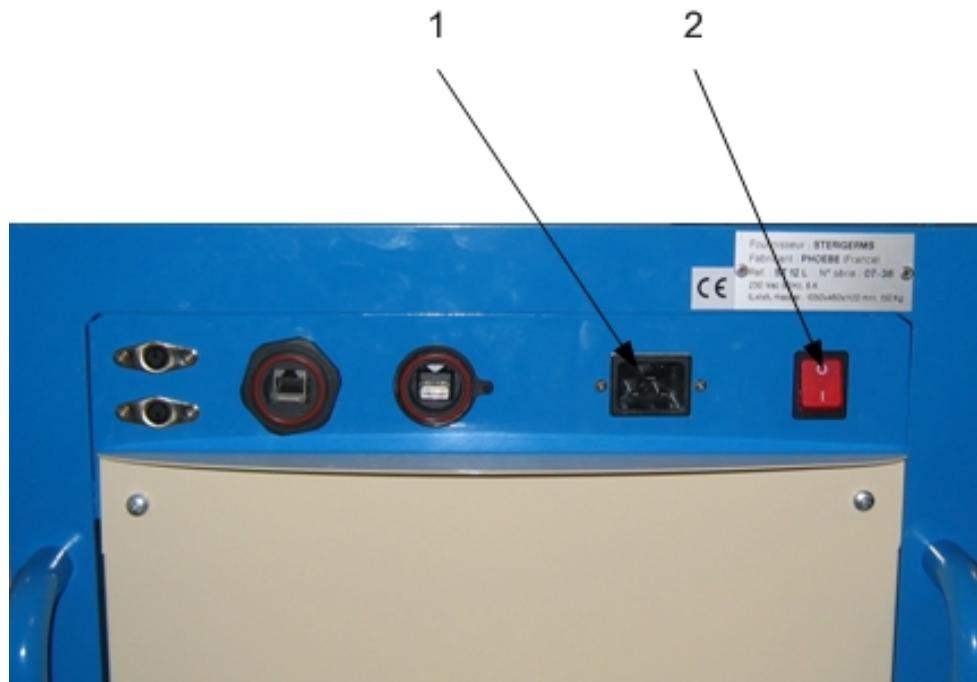


Figure 2 – Rear side of STERIGERMS

- Check that STERIGERMS is connected to the power supply network (§2.1).
- Ensure that the emergency knock-off switch (9, Figure 1) located at the right-hand side of the STERIGERMS control console is directed outwards; if not, bring it back to its original position using the key and then retrieve the key.

- Set the main power-up switch (2, Figure 2) located at the rear of STERIGERMS to the “ON” position and check that the integrated light indicator comes on.
- Push the control console pushbutton (4, Figure 3).

2.2.2. Standard power-up

- Ensure that the emergency knock-off switch (9, Figure 1) located at the right-hand side of the STERIGERMS control console is directed outwards ; if not, put it back into its original position using the key and then retrieve the key.
- Check that the main power-up switch (2, Figure 2), located at the rear of STERIGERMS is in the “ON” position and that the integrated indicator light is on.
- Push the control console pushbutton (4, Figure 3).

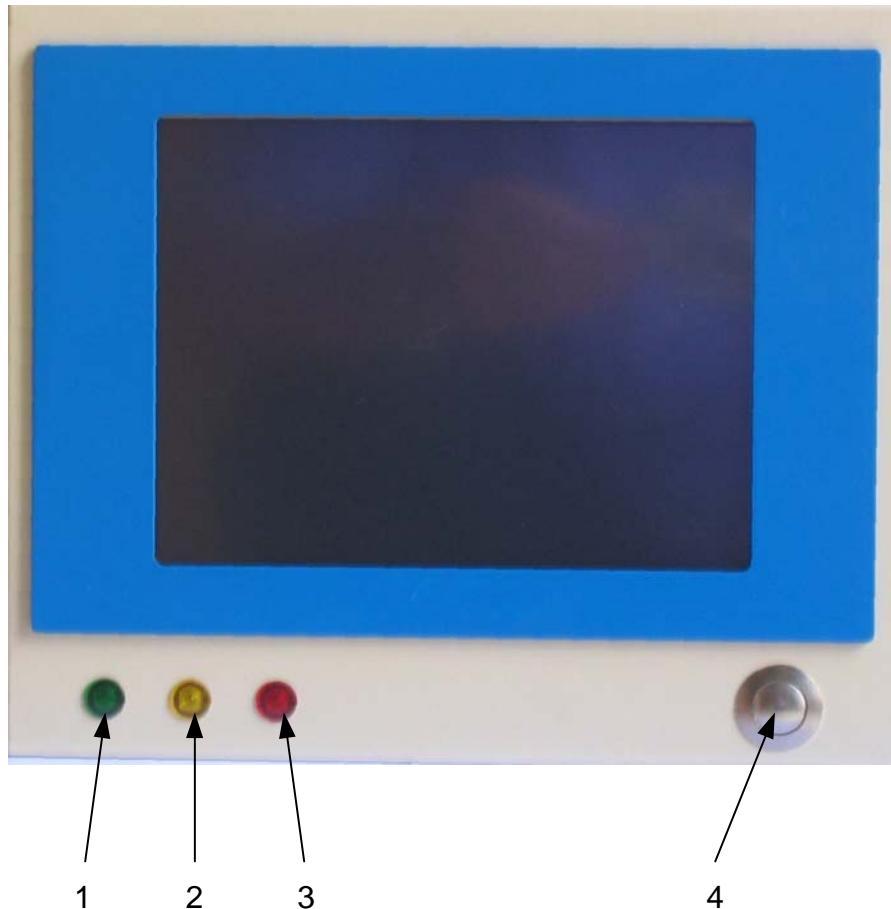


Figure 3 – Control console

The control console red (3, Figure 3) and yellow (2, Figure 3) indicator lights come on for about thirty seconds (time required for initialization of Windows and Sterisoft software) and go out. Then, the green indicator light (1, Figure 3) comes on and the Welcome page appears.

Welcome
Please press the "Enter" button



Quit

Langues /
Languages

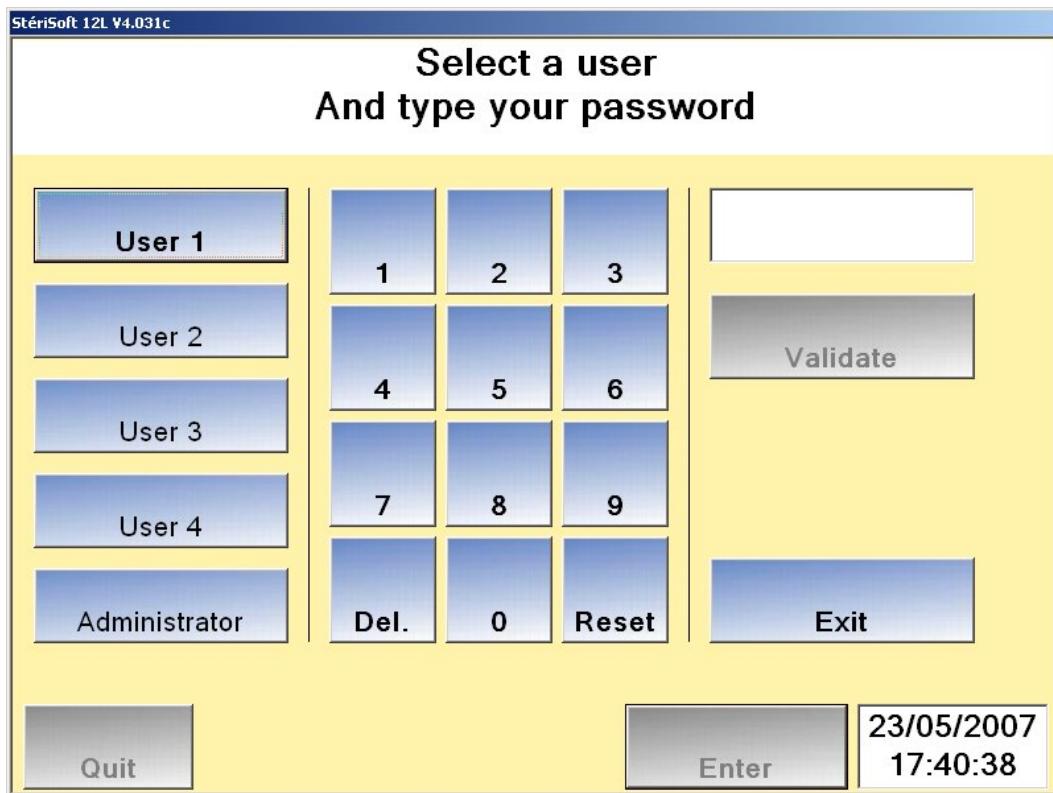
Enter

23/05/2007
17:39:48

Caution: In case of problem (if the red or yellow indicator light(s) stay(s) on), stop the power-up procedure and contact the administrator. If the yellow indicator light comes on during a cycle, the cycle can be completed anyway.

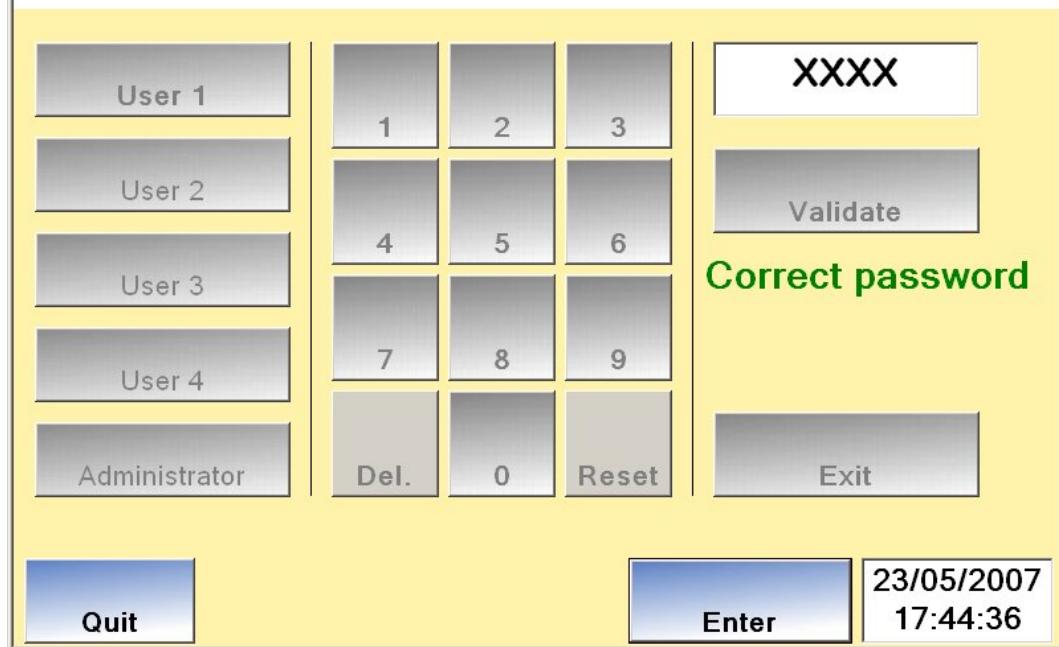
2.3. Exploitation cycle

- On the screen, select the “Enter” button. The ‘Select a user And type your password’ window appears:

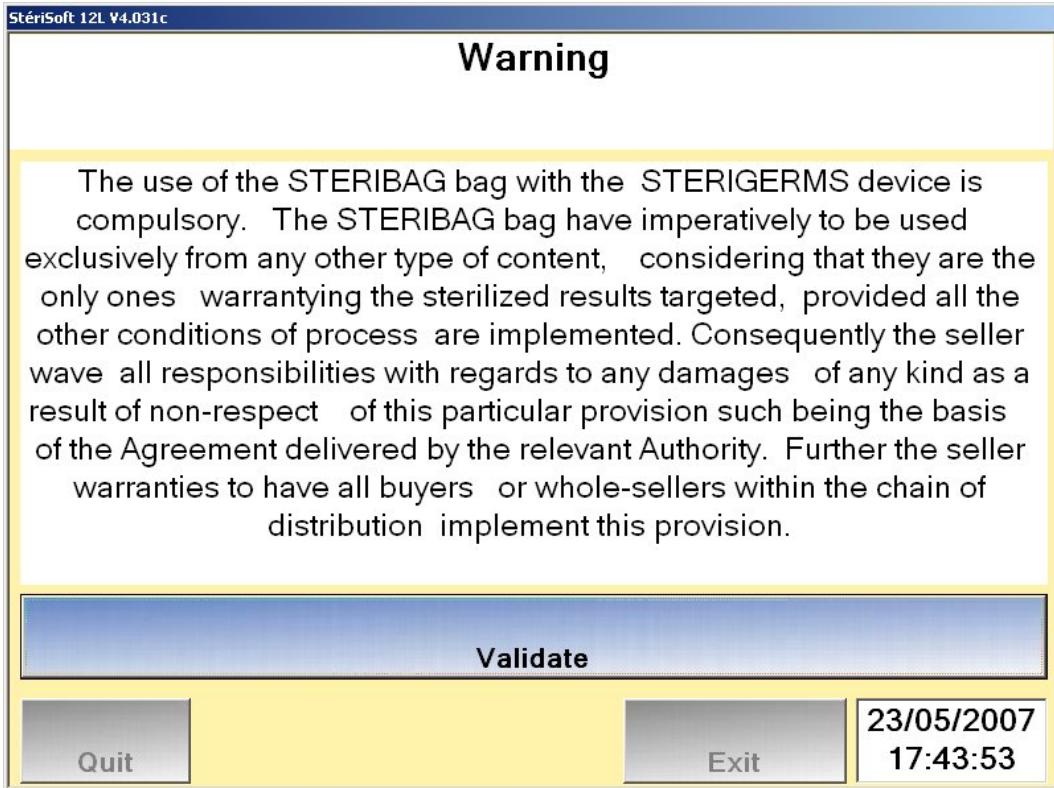


- Select the required user. This highlights the corresponding button.
- Using the keyboard, type in the corresponding 4-digit password and press the “Validate” button. The ‘Correct password’ window appears. If the typed password is incorrect, the ‘Wrong password’ window is displayed. In that case, refer to § 2.4.

Correct password

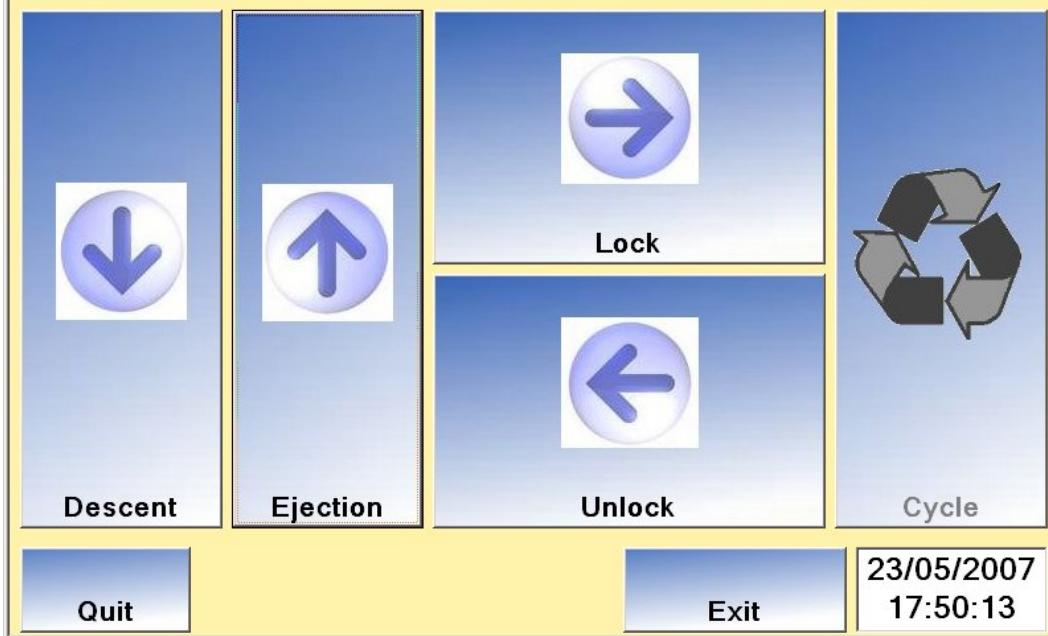


- On the screen, select the “Enter” button. The first ‘Warning’ window appears.

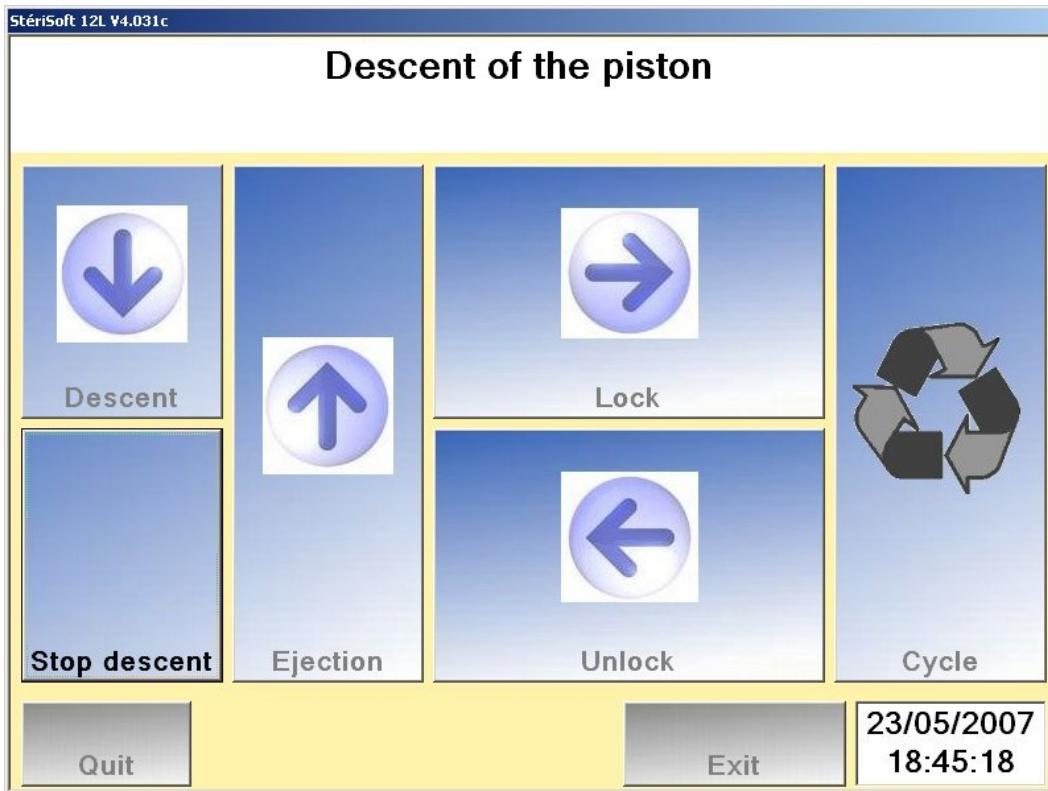


- On the screen, select the “Validate” button. The ‘Select an operation’ window appears.

Select an operation



- On the screen, select the “Descent” button to move down the piston. The following window appears:



- Insert the waste bag into the Steribag bag for treatment,
- Insert the Steribag bag into the STERIGERMS at the bottom of the waste treatment compartment so that it does not overflow the edges of the container.

1) Fold the lower part of the steribag



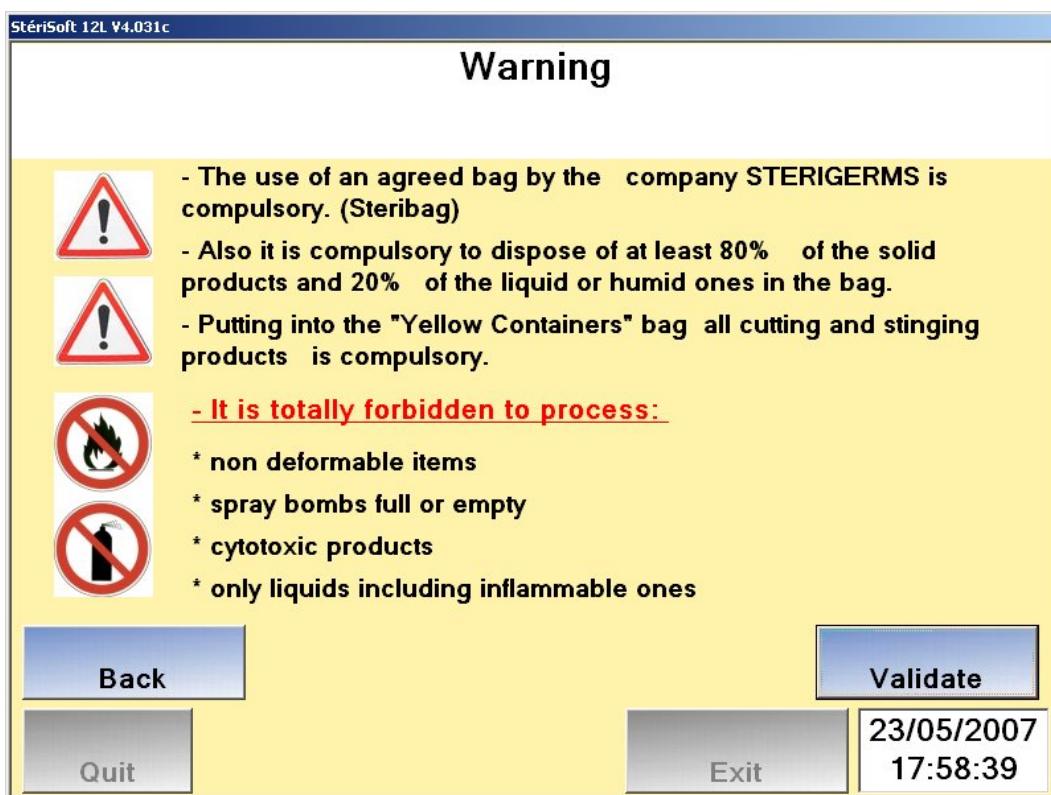
2) Fold the top part of the steribag



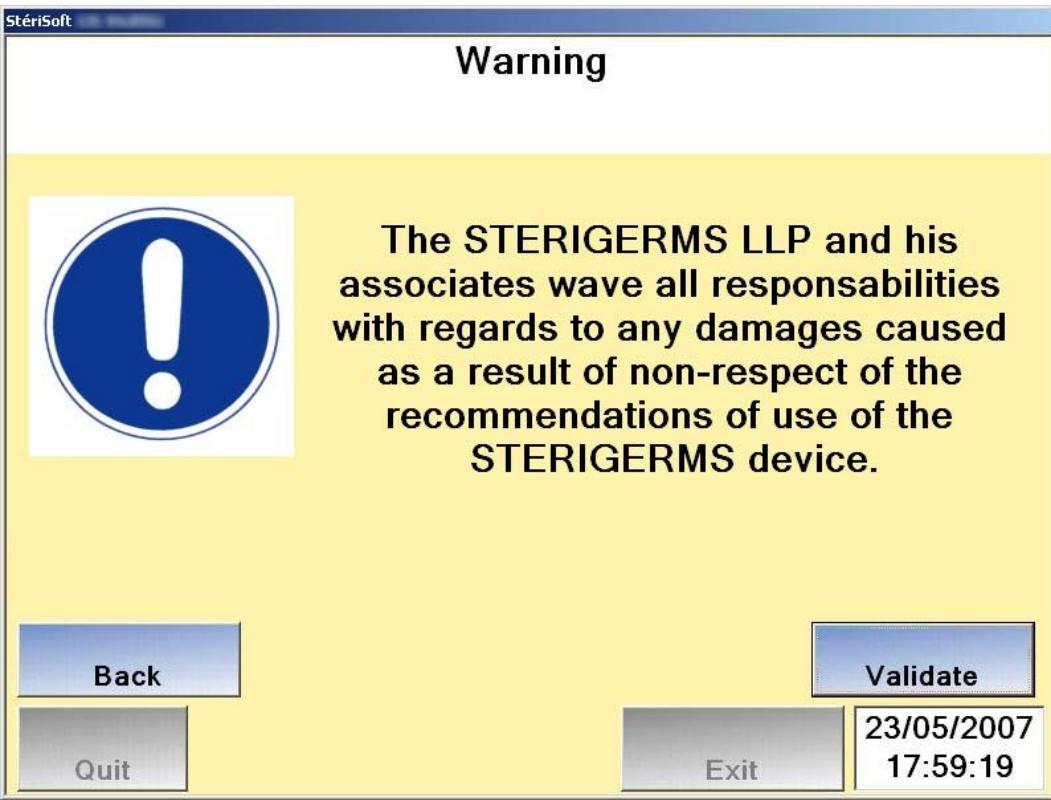
3) Fold down the two tips thus formed along the barrel

Figure 4 – Waste bag closing procedure

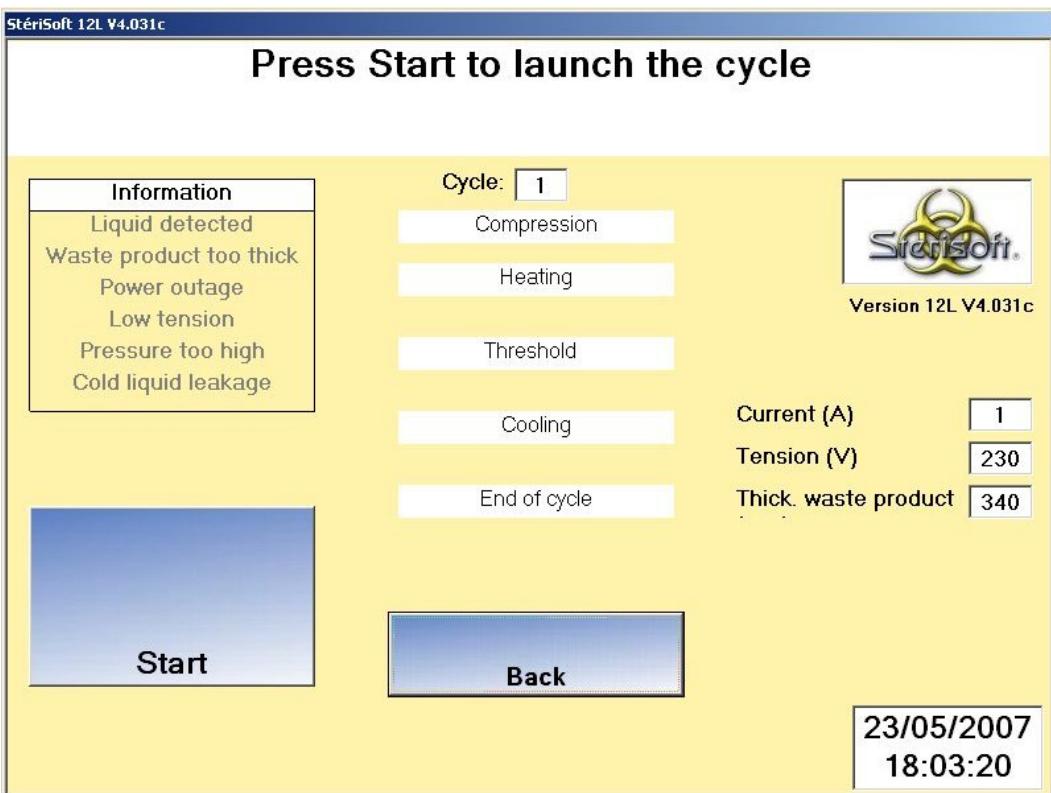
- Close the cover of STERIGERMS.
- On the screen, select the “Lock” button (locking lasts about 5 seconds).
- On the screen, select the “Cycle” button, the second ‘Warning’ window appears.



- On the screen, select the “Validate” button, the third ‘Warning’ window appears.



- On the screen, select the "Validate" button to access the 'Press Start to launch the cycle' window.



- On the screen, select the "Start" button to access the 'Press Confirm to launch the cycle' window.

Press Confirm to launch the cycle

Information <ul style="list-style-type: none"> Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage 	Cycle: <input type="text" value="1"/> <input type="button" value="Compression"/> <input type="button" value="Heating"/> <input type="button" value="Threshold"/> <input type="button" value="Cooling"/> <input type="button" value="End of cycle"/>	 Version 12L V4.031c Current (A) <input type="text" value="1"/> Tension (V) <input type="text" value="230"/> Thick. waste product <input type="text" value="340"/>
 <input type="button" value="Confirm"/>		<input type="button" value="Back"/>
23/05/2007 18:04:48		

- On the screen, select the "Confirm" button to launch the cycle.

During the cycle, the following windows automatically appear to visualize the various stages of the ongoing cycle (compression, heating, treatment, cooling, end of cycle).

Information <ul style="list-style-type: none"> Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage 	Cycle: <input type="text" value="1"/> <input type="button" value="Compression"/> <input type="button" value="Heating"/> <input type="button" value="Threshold"/> <input type="button" value="Cooling"/> <input type="button" value="End of cycle"/>	 Version 12L V4.031c Current (A) <input type="text" value="1"/> Tension (V) <input type="text" value="230"/> Thick. waste product <input type="text" value="53"/>
		Starting compression
23/05/2007 18:30:21		

Heating

Information
Liquid detected
Waste product too thick
Power outage
Low tension
Pressure too high
Cold liquid leakage

Cycle:

Compression

Heating
23/05/2007 18:33:34

Version 12L V4.031c

Threshold

Cooling

Current (A)

Tension (V)

End of cycle

Thick. waste product

23/05/2007
18:33:37

Threshold reached

Information
Liquid detected
Waste product too thick
Power outage
Low tension
Pressure too high
Cold liquid leakage

Cycle:

Compression

Heating
23/05/2007 18:35:55

Version 12L V4.031c

Threshold remain 12

23/05/2007 18:35:55

Cooling

Current (A)

Tension (V)

End of cycle

Thick. waste product

23/05/2007
18:36:01

Cooling

Information
Liquid detected
Waste product too thick
Power outage
Low tension
Pressure too high
Cold liquid leakage

Cycle:

Compression

Heating
23/05/2007 18:37:30Threshold
23/05/2007 18:37:30Cooling
23/05/2007 18:37:30

End of cycle



Version 12L V4.031c

Current (A) Tension (V) Thick. waste product 23/05/2007
18:37:37

End of Cycle

Information
Liquid detected
Waste product too thick
Power outage
Low tension
Pressure too high
Cold liquid leakage

Cycle:

Compression

Heating
23/05/2007 18:41:03Threshold
23/05/2007 18:41:03Cooling
23/05/2007 18:41:03End of cycle
23/05/2007 18:41:03

Version 12L V4.031c

Current (A) Tension (V) Thick. waste product 

Waste has been processed

Opening device

23/05/2007
18:41:08

When the cycle has completed, the message "Waste has been processed / Waste has not been processed" is displayed in the lower part of the screen.

- On the screen, select the "Open device" button to return to the 'Select an operation' window.

End of Cycle

Cleaning of the machine is a compulsory rule after every use



Cover	Clean with a wet sponge the 4 elements
Piston	
Gasket	Use the scraper only in case of firm sticking
Airholes	
Recovery tray	Empty regularly the recovery tray

Non compliance with this rule entails the guarantee cancellation

OK

23/05/2007
18:41:08

- On the screen, select the "OK" button. The "Select an operation" window appears

Select an operation



Descent



Ejection



Lock



Unlock



Cycle

Quit

Exit

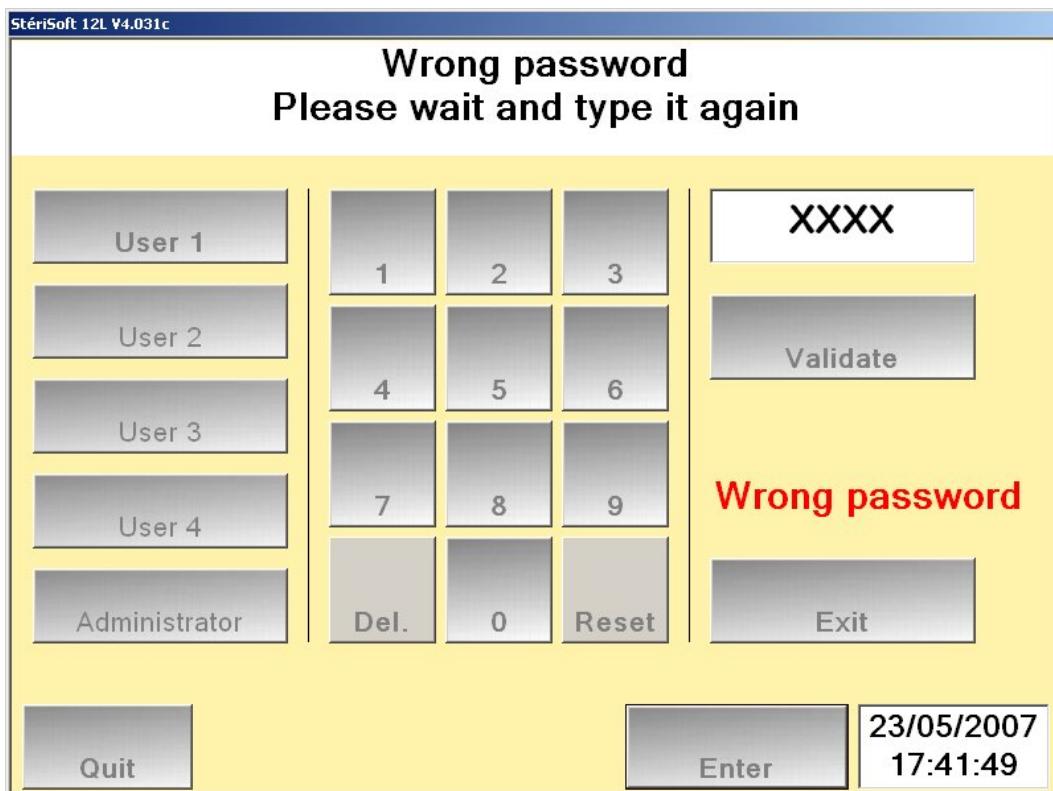
23/05/2007
17:50:13

- On the screen, select the "Unlock" button.
- Open the cover of STERIGERMS.
- On the screen, select the "Eject" button to monitor the ejection of the piston.

- Retrieve the compressed waste product and discard it. You can now dispose of it as of standard household waste.

2.4. Case of wrong password

If the password typed is wrong, the ‘Wrong password Please wait and type it again’ window appears during 4 seconds, then the ‘Select a user And type your password’ window is displayed again. Perform again the procedure described in § 2.3.



3. SHUTDOWN

Three types of shutdown can be performed:

- Standard shutdown after use
- Complete shutdown due to technical issue or transfer of the device to another location
- Emergency shutdown in case of serious incident

3.1. Standard shutdown

- On the displayed screen, select the “Quit” button and then the “YES” button of the confirmation window. Only the control console is shut down, STERIGERMS is in stand-by mode.

3.2. Complete shutdown

- On the displayed screen, select the “Quit” button and then the “YES” button of the confirmation window. Only the control console is shut down, STERIGERMS is in stand-by mode.
- Set the main power-up switch (2, Figure 2) located at the rear of STERIGERMS to the “Off” position. The integrated light indicator goes out.

3.3. Emergency shutdown

- Push the emergency knock-off switch (9, Figure 1) located at the right-hand side of the STERIGERMS control console. This action will switch off main power supply.

4. ALARMS

DISPLAYED ALARMS	EXPLANATION	ACTIONS
Liquid detected	Presence of liquid under the cover	None
Waste product too thick	Thickness of compressed waste product exceeds 12 cm	None
Power outage	Once power supply has been restored, cycle is restarted from the point of interruption caused by power outage	None
Low tension	Tension of external power supply is less than 215 V	Contact the administrator
Pressure too high	Cylinder pressure too high	Contact the administrator
Lack of cooling liquid	Cooling liquid level too low	Fill up with cooling liquid
Upper banner of the screen is red (see following window)	Internal malfunction	Contact the administrator



5. MAINTENANCE

5.1. Table of periodic operations

OPÉRATIONS	FREQUENCY	PROCÉDURES
Cleaning of the treatment compartment	After each cycle	§ 5.2
Control of oil level	Twice a month	§ 5.3
Control of cooling liquid level	In case of alarm	§ 5.4
Exchange of the cover gasket	Twice a year or after production of 300 compressed waste products	§ 5.5
Exchange of the particle filter	Twice a year or after production of 300 compressed waste products	§ 5.6

5.2. Cleaning of the treatment compartment

- Do not use any abrasive, scrubbing or metallic sponge or sharp or cutting object for cleaning
- Clean the treatment compartment, the cover and the cover gasket surface using kitchen towel
- You can optionally use the provided scraper (Figure 5) to remove plastic bag residues on parts made of stainless steel (cover and piston)



Figure 5 - Scraper

- Lubricate the gasket with a standard oil that supports temperatures exceeding 145 °C
- Remove residual stains (blood, gelose...) with a sponge and regular liquid soap.

5.3. Control of oil level

During this operation, the piston must be kept in low position:

- Unscrew the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver) on the left flank. Tilt the flank down on your side and pull it upwards to remove it.
- Check that oil level is within the limits indicated on the oil tank.
- If oil level is correct, engage the right flank on the locating pins located at the bottom of the tank, press the flank against the chassis and tighten it using the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver).
- If oil level is too low, top up with oil (32 hydraulic synthetic oil):
 - Unscrew the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver) on the right flank. Tilt the flank down on your side and pull it upwards to remove it.
 - Remove the oil tank cap (1).
 - Insert a flexible funnel of the same type as the one shown on Figure 6.



Figure 6 – Flexible funnel

- Top up with oil (with a level slightly below the maximum indicated on the tank).
- Remove the flexible funnel.
- Replace the oil tank cap (1).

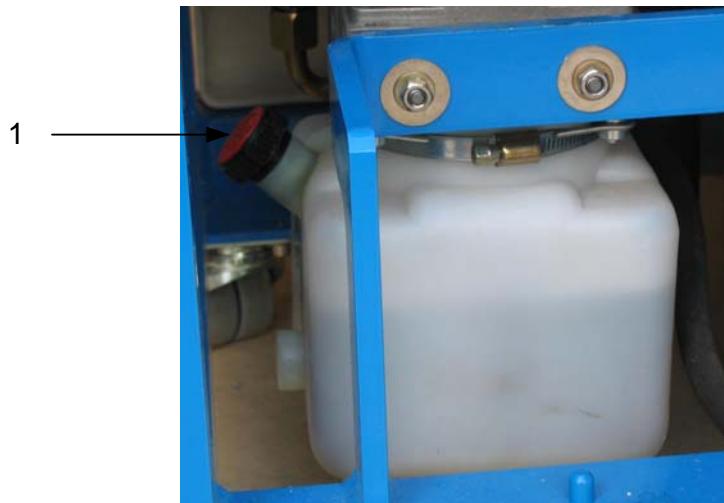


Figure 7 – Control of oil level

- Engage the left flank on the locating pins located at the bottom of the tank, press the flank against the chassis and tighten it using the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver).
- Engage the right flank on the locating pins located at the bottom of the tank, press the flank against the chassis and tighten it using the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver).

5.4. Control of cooling liquid level

When the cooling liquid level is too low, an alarm is automatically triggered. If so, you must top up the cooling liquid reservoir with cooling liquid (STERIGERMS must be powered up during this operation):

- Unscrew the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver) on the left flank. Tilt the flank down on your side and pull it upwards to remove it.
- Remove the cap (1) of the cooling liquid reservoir.
- Add demineralised water until the alarm stops.
- Replace the cap (1) of the cooling liquid reservoir.



Figure 8 – Control of cooling liquid level

- Engage the left flank on the locating pins located at the bottom of the tank, press the flank against the chassis and tighten it using the two $\frac{1}{4}$ " fastening screws (Pozidriv no 1 screwdriver).

5.5. Exchange of the cover gasket

- Open the cover of STERIGERMS.
- Remove the gasket (1, Figure 9) using a screwdriver and discard it.



Figure 9 - Exchange of the cover gasket

- Put a new gasket and grease it with **high temperature (180 °C) grease (of type DARINA R2)**.
- Close the cover.

5.6. Exchange of the particle filter

- Unscrew the 5 fastening screws (1, Figure 10) (3mm hexagonal key) on the plastic cover of STERIGERMS and remove the plastic cover.



Figure 10 – Removal of the plastic cover

- Unscrew the 2 fastening screws (2 and 7, Figure 11) (3mm hexagonal key) of the filter cap insulating grid (1, Figure 11).
- Open the cover of STERIGERMS and remove the filter cap insulating grid (1, Figure 11).
- Close the cover of STERIGERMS.
- Unscrew the 4 fastening screws (3 and 6, Figure 11) of the filter cap (5, Figure 11) (4mm hexagonal driver).

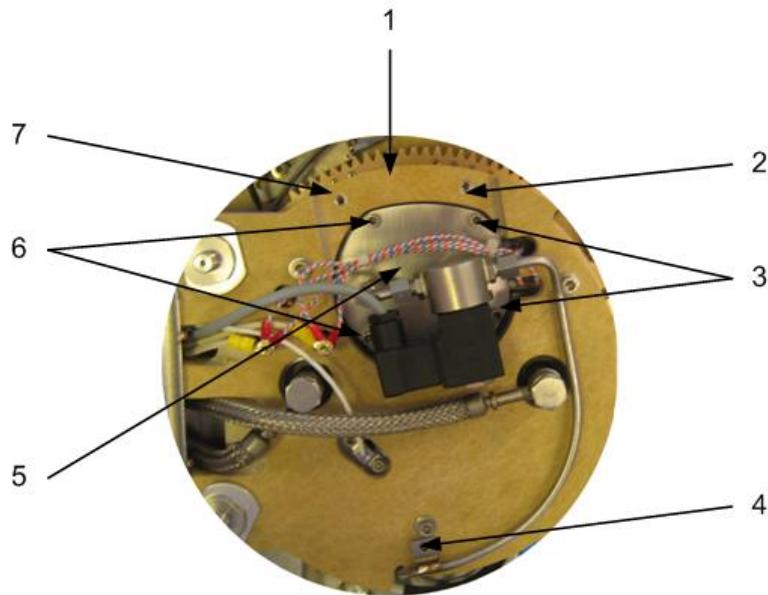


Figure 11 – Removal of the filter plug

- Tilt the filter cap (3, Figure 12) to gain access to the particle filter (2, Figure 12) casing.
- Remove and discard the particle filter (2, Figure 12) using a screwdriver.

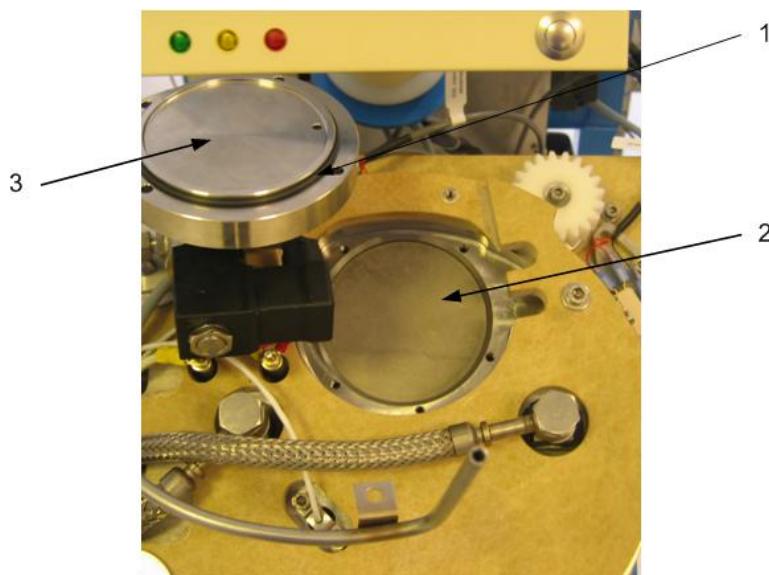


Figure 12 – Exchange of the particle filter

- Clean soiled parts (§ 5.2).
- Check the status of the filter cap gasket (1, Figure 12). You can optionally clean the gasket (§ 5.2) or exchange it if necessary:
 - Remove the filter cap gasket (1, Figure 12) and discard it.
 - Insert a new gasket (1, Figure 12).
- Insert a new particle filter (2, Figure 12) in its casing.
- Put back the filter cap (5, Figure 11) into position and fasten it with its 4 fastening screws (3 and 6, Figure 11) (4mm hexagonal driver).
- Open the cover of STERIGERMS and insert the filter cap insulating grid (1, Figure 11).

- Close the cover of STERIGERMS.
- Screw the 2 fastening screws (2 and 7, Figure 11) (4mm hexagonal key) of the filter cap insulating grid.
- Replace the plastic cover of STERIGERMS and screw the 5 fastening screws (1, Figure 10) (3mm hexagonal key).

6. WARNING AND SAFETY SIGNS

	<p><u>Prohibited</u></p> <ul style="list-style-type: none">- Do not introduce any pressurized containers such as spray bombs.- Do not introduce flammable products.- Do not introduce explosives substances.- Do not perform cycles when the device is empty.- Do not perform prior compaction.- Do not process compressed waste products with a thickness exceeding 10cm, or in other words bags weighing more than 4kg.- Do not introduce any of the products mentioned in the 26 July 1991 circular, volatile toxic substances (including cytostatic drugs) or waste with potential risks of "prion" infection.- Do not introduce waste destined for another treatment line, such as mercury, lead, electric cells, batteries, acids, alkaline compounds radioactive products, etc...- Do not dispose of living animals and/or of recognisable human anatomical parts.- Do not dispose of waste containing plastics for any other purpose than medical or alimentary.- Do not introduce hermetic bags into the device, to guarantee correct operation.
	<p><u>Compulsory</u></p> <ul style="list-style-type: none">- Use the specific Steribag bags developed and validated by the company STERIGERMS and agreed by the "Conseil Supérieur de l'Hygiène Publique de France", indispensable for proper waste processing. Waste products processed without this bag will not be considered as sanitized.- Condition stinging/cutting objects, glass, ceramics and minerals (Sand, gravels) in boxes to that effect. Boxes and other types of waste must be introduced directly into the Steribag bags. Prostheses and teeth are considered to be cutting/stinging objects.
	<p>For the compressed waste product to conform to regulations regarding household waste disposal, liquid products cannot exceed 30% of the total weight of a load of processed waste, so as to keep the waste encapsulated in a sufficiently rigid package.</p> <p>If waste disinfection is validated by the device (the message "waste processed successfully" appears on the screen), you can dispose of the compressed waste product via the same treatment line as any household waste. If not, the compressed waste product is not disinfected and must imperatively be disposed of via a specialized treatment line for IMW (Infectious Medical Waste) or otherwise reprocessed.</p> <p>If there are remaining liquids in the bin after validation by the device of waste disinfection, you can empty the bin from its contents and dispose of it as of any standard liquid household waste product.</p>

	<p>It is forbidden to introduce flammable products.</p>
	<p>It is forbidden to introduce pressurized products such as spray bombs (full or empty).</p>
	<p>Use of the Steribag bag is compulsory. Stinging and cutting objects and glass must be conditioned in a box conform to the norms and intended for this purpose (yellow boxes) before their disposal into the Steribag bag.</p>

7. HUMAN – MACHINE DIALOG

STERISOFT management software allows:

- Management of STERIGERMS,
- HMI (Human Machine Interface).

This section introduces available exploitation windows and presents the functions of touch screen keys and related information zones. Unavailable keys are displayed in grey.



TOUCH SCREEN KEYS	FUNCTIONS
Quit	Close the application and shut down the control console with a confirmation window (Window 11)
Enter	Go to the ' Select a user And type your password ' window

Window 1 - Welcome Please press the “Enter” button

Select a user And type your password

User 1	1	2	3	
User 2	4	5	6	Validate
User 3	7	8	9	
User 4	Del.	0	Reset	Exit
Administrator				
Quit	Enter			23/05/2007 17:40:38

TOUCH SCREEN KEYS	FUNCTIONS
User 1/2/3/4	Select the required user
Validate	Acknowledge and validate the typed password and open the ' Correct password ' or the ' Wrong password ' window. This key is only available when the 4 digits of the password have been typed.
Keyboard	Set of keys allowing to type the password
Exit	Go back to the previous window
Quit	Unavailable
Enter	Unavailable
Del.	Delete the last digit
Reset	Delete all the typed digits

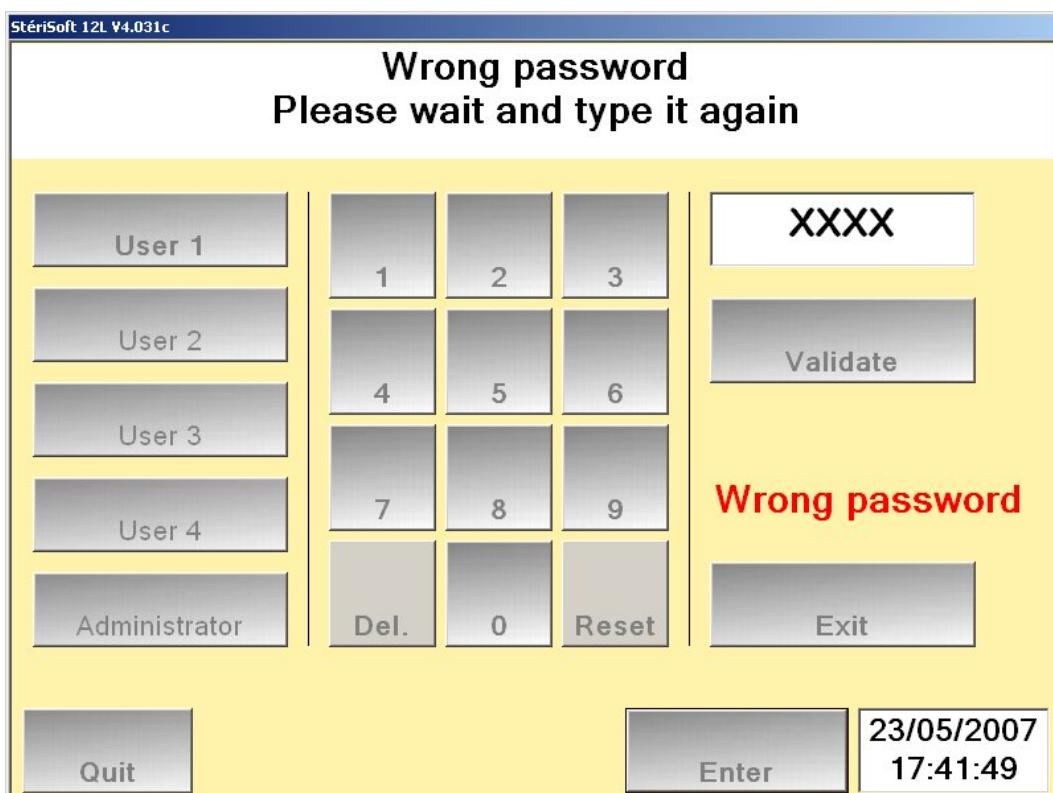
Window 2 - Select a user And type your password

Correct password

<div style="background-color: #ffffcc; padding: 5px;"> User 1 User 2 User 3 User 4 Administrator </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> 1 2 3 4 5 6 7 8 9 Del. 0 Reset </div>	<div style="background-color: #ffffcc; padding: 5px; text-align: center;"> XXXX Validate Correct password Exit </div>
		<div style="background-color: #ccccff; padding: 5px; border: 1px solid black; margin-right: 10px;"> Quit </div> <div style="background-color: #ccccff; padding: 5px; border: 1px solid black; margin-right: 10px;"> Enter </div> <div style="border: 1px solid black; padding: 2px;"> 23/05/2007 17:44:36 </div>

TOUCH SCREEN KEYS	FUNCTIONS
User 1/2/3/4	Unavailable
Administrator	Unavailable
Validate	Unavailable
Keyboard	Unavailable
Exit	Unavailable
Quit	Close the application and shut down the control console with a confirmation window (Window 11)
Enter	Go to the next window

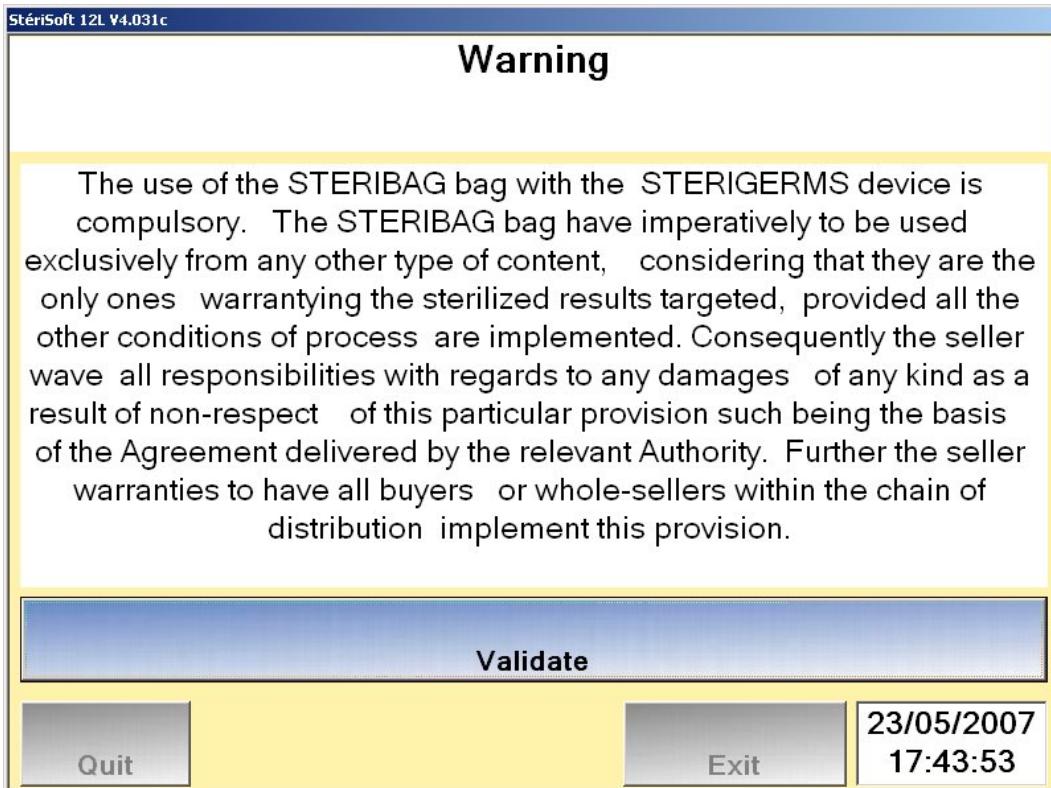
Window 3 – Correct password



Display of this screen is temporary and all the keys are unavailable.

After about 4 seconds, the '**Select a user And type your password**' window appears again, allowing to type the password again.

Window 4 – Wrong password Please wait and type it again



TOUCH SCREEN KEYS	FUNCTIONS
Validate	Go to the next window
Quit	Unavailable
Exit	Unavailable

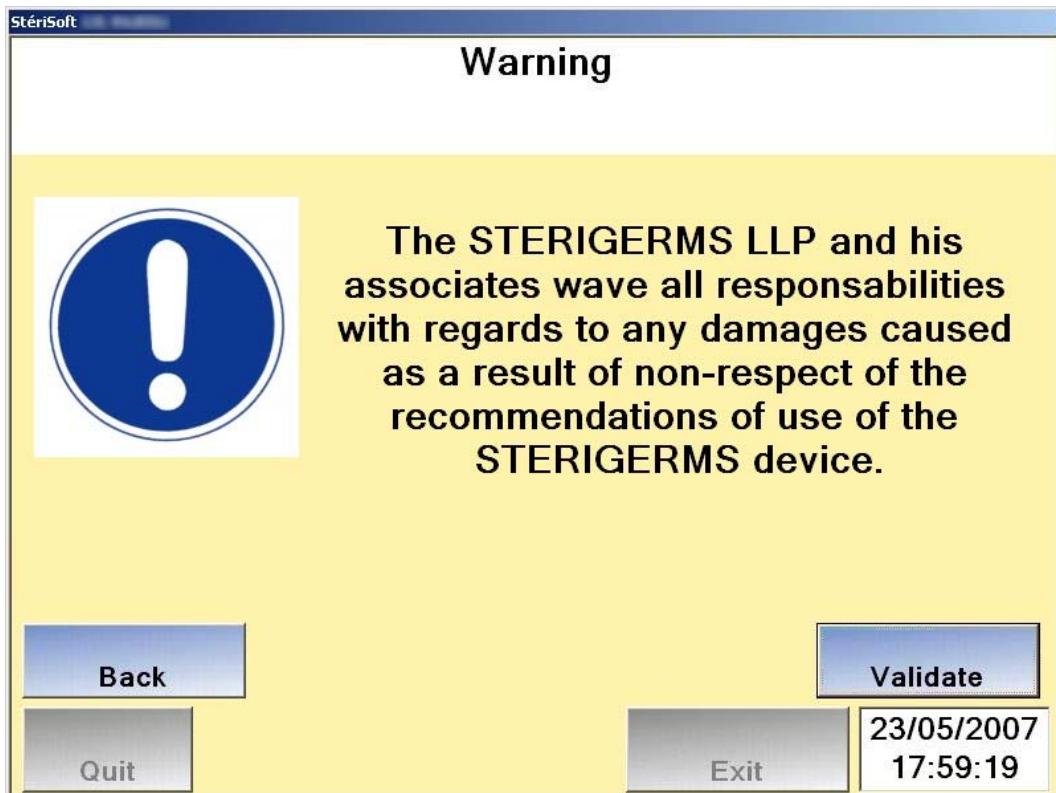
Window 5 - Warning (first window)

Warning

 	<ul style="list-style-type: none"> - The use of an agreed bag by the company STERIGERMS is compulsory. (Steribag) - Also it is compulsory to dispose of at least 80% of the solid products and 20% of the liquid or humid ones in the bag. - Putting into the "Yellow Containers" bag all cutting and stinging products is compulsory. <p><u>- It is totally forbidden to process:</u></p> <ul style="list-style-type: none"> * non deformable items * spray bombs full or empty * cytotoxic products * only liquids including inflammable ones
<input type="button" value="Back"/>	<input type="button" value="Validate"/>
<input type="button" value="Quit"/>	<input type="button" value="Exit"/>
23/05/2007 17:58:39	

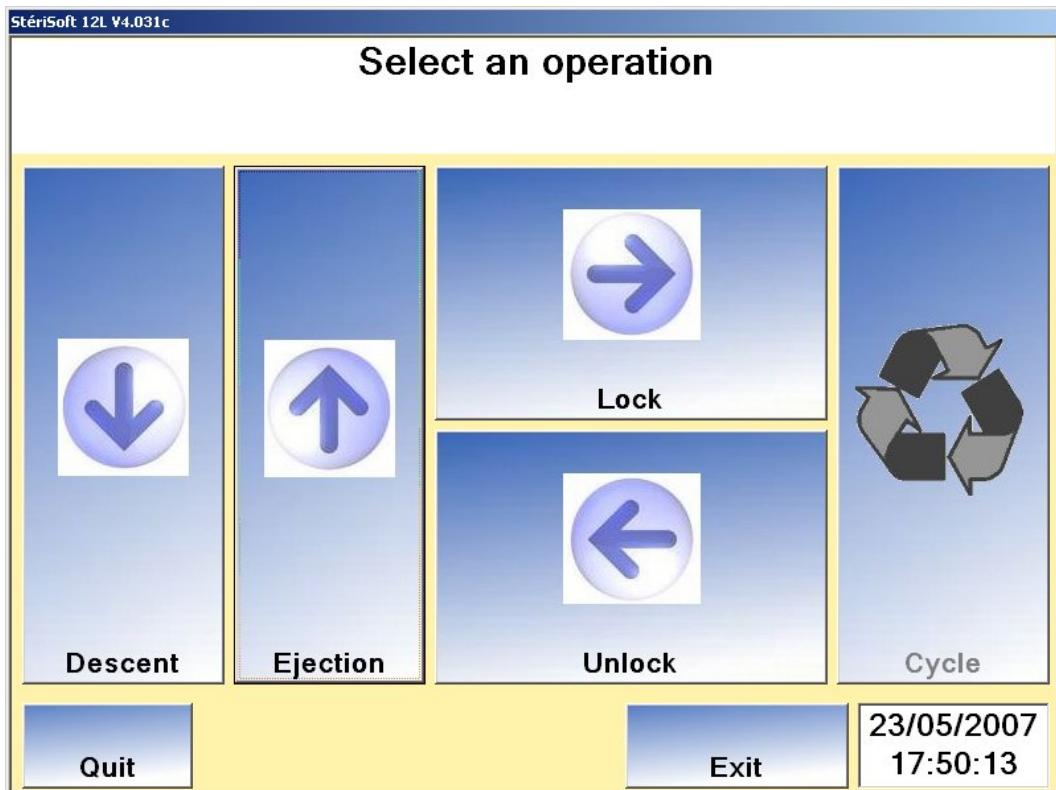
TOUCH SCREEN KEYS	FUNCTIONS
Back	Go back to the 'Select an operation' window
Validate	Go to the next window
Quit	Unavailable
Exit	Unavailable

Window 6 – Warning (second window)



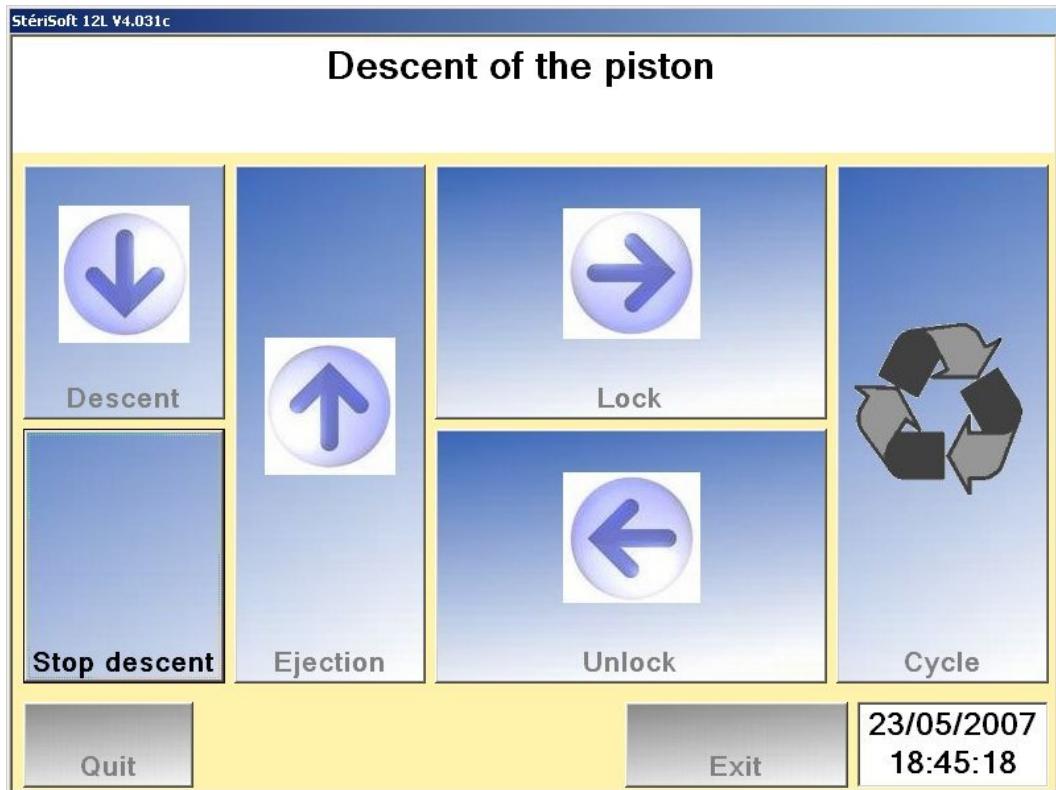
TOUCH SCREEN KEYS	FUNCTIONS
Back	Go back to the second warning window
Validate	Go to the cycle window
Quit	Unavailable
Exit	Unavailable

Window 7 - Warning (third window)



TOUCH SCREEN KEYS	FUNCTIONS
Descent	Control to move the piston downwards
Ejection	Control to move the piston upwards
Lock	Control to lock the cover
Unlock	Control to unlock the cover
Cycle	Go to the cycle window
Quit	Close the application and shut down the control console with a confirmation window (Window 11)
Exit	Go back to the welcome window

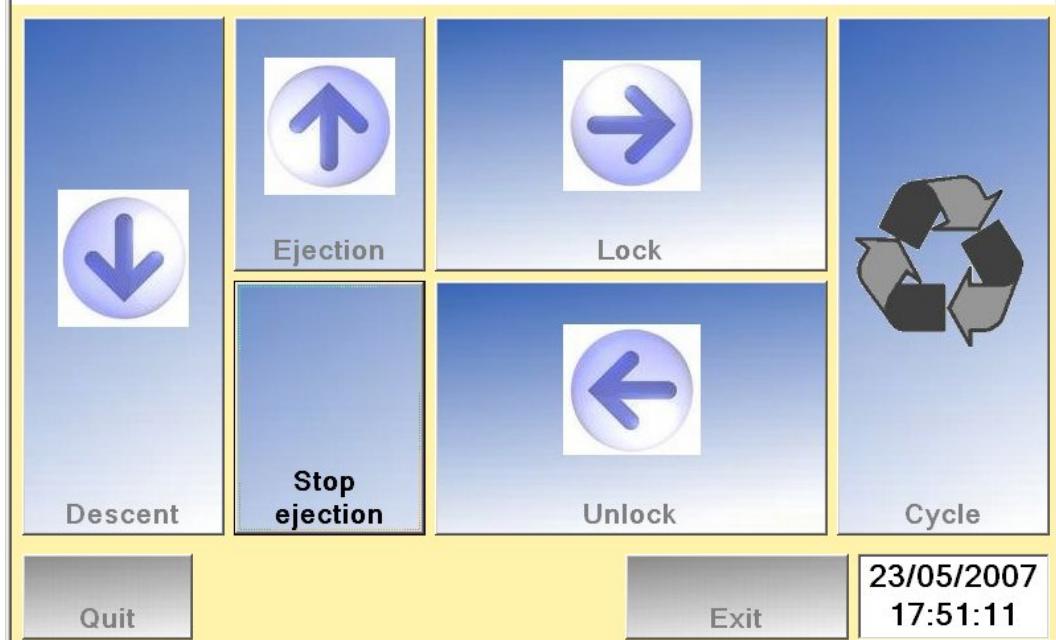
Window 8 – Select an operation



TOUCH SCREEN KEYS	FUNCTIONS
Stop descent	Control to stop the descent of the piston
Ejection	Unavailable
Lock	Unavailable
Unlock	Unavailable
Cycle	Unavailable
Quit	Unavailable
Exit	Unavailable

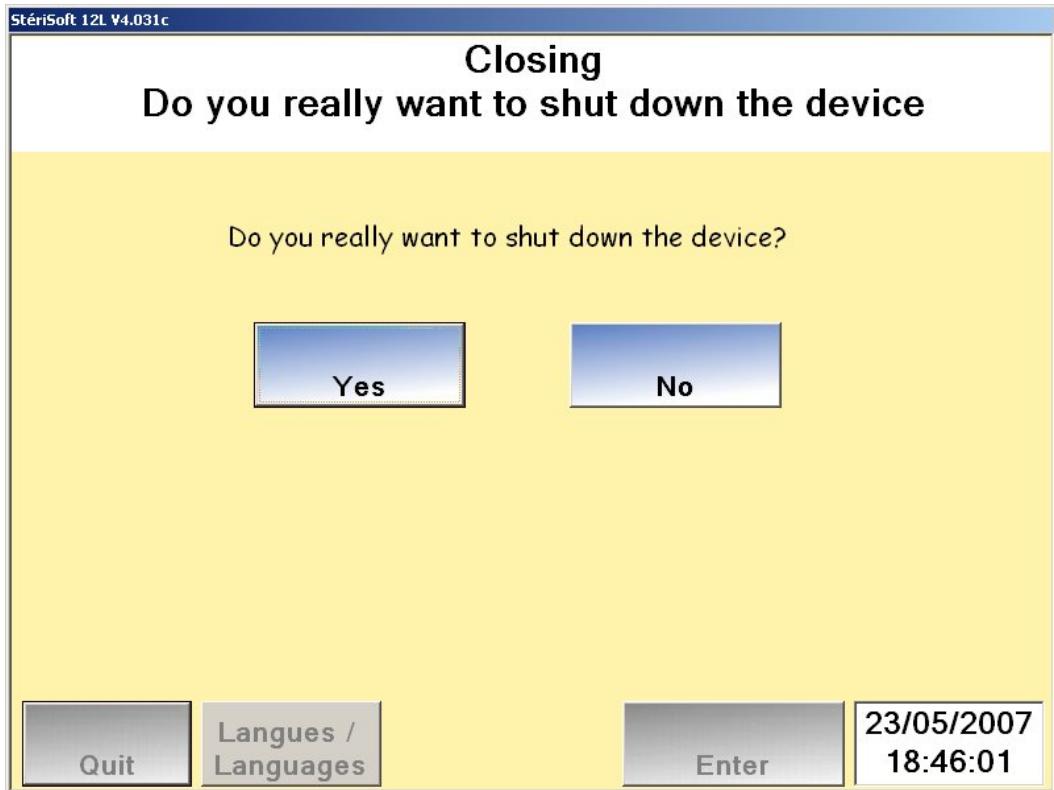
Window 9 - Descent of the piston

Ejection of the waste product



TOUCH SCREEN KEYS	FUNCTIONS
Descent	Unavailable
Stop ejection	Control to stop ejection of the compressed waste product
Lock	Unavailable
Unlock	Unavailable
Cycle	Unavailable
Quit	Unavailable
Exit	Unavailable

Window 10 - Ejection of the compressed waste product



TOUCH SCREEN KEYS	FUNCTIONS
Yes	Close the application and shut down the control console
No	Go back to the previous window
Quit	Unavailable
Enter	Unavailable

Window 11 - Closing Do you really want to shut down the device

Press Start to launch the cycle

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: <input type="button" value="1"/> Compression Heating Threshold Cooling End of cycle	 Version 12L V4.031c	Current (A) <input type="button" value="1"/> Tension (V) <input type="button" value="230"/> Thick. waste product <input type="button" value="340"/>
<input type="button" value="Start"/>		<input type="button" value="Back"/>	
23/05/2007 18:03:20			

TOUCH SCREEN KEYS	FUNCTIONS
Start	Launch the cycle
Back	Go back to the warning window

INFORMATION ZONES	SIGNIFICATION
Information	Unavailable
Cycle	Unavailable
Compression	Unavailable
Heating	Unavailable
Threshold	Unavailable
Cooling	Unavailable
End of cycle	Unavailable
Current	Electrical consumption of STERIGERMS in sleeping mode
Tension	Tension value of the electrical network
Thick. waste product	Position of the piston (340mm corresponds to low position)

Window 12 – Press Start to Launch the cycle

Press Confirm to launch the cycle

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: <input type="button" value="1"/> Compression Heating Threshold Cooling End of cycle	 Version 12L V4.031c
 <input type="button" value="Confirm"/>		Current (A) <input type="button" value="1"/> Tension (V) <input type="button" value="230"/> Thick. waste product <input type="button" value="340"/>
<input type="button" value="Back"/>		23/05/2007 18:04:48

TOUCH SCREEN KEYS	FUNCTIONS
Confirm	Confirm launch of the cycle
Back	Go back to the previous window

INFORMATION ZONES	SIGNIFICATION
Information	Unavailable
Cycle	Unavailable
Compression	Unavailable
Heating	Unavailable
Threshold	Unavailable
Cooling	Unavailable
End of cycle	Unavailable
Current	Electrical consumption of STERIGERMS in sleeping mode
Tension	Tension value of the electrical network
Thick. waste product	Position of the piston (340mm corresponds to low position)

Window 13 - Press Confirm to launch the cycle

Starting compression

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: <input type="text" value="1"/> Compression Heating Threshold Cooling End of cycle	 Version 12L V4.031c	Current (A) <input type="text" value="1"/> Tension (V) <input type="text" value="230"/> Thick. waste product <input type="text" value="53"/>
		23/05/2007 18:30:21	

INFORMATION ZONES	SIGNIFICATION
Information	Display of detected malfunction (§4)
Cycle	Cycle number
Compression	Display of compression phase
Heating	Unavailable
Threshold	Unavailable
Cooling	Unavailable
End of cycle	Unavailable
Current	Electrical consumption of STERIGERMS in sleeping mode
Tension	Tension value of the electrical network
Thick. waste product	Position of the piston (340mm corresponds to low position)

Window 14 – Start compression

Heating

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: <input type="text" value="1"/> Compression Heating 23/05/2007 18:33:34 Threshold Cooling End of cycle	 Version 12L V4.031c
		
23/05/2007 18:33:37		

INFORMATION ZONES	SIGNIFICATION
Information	Display of detected malfunction (§4)
Cycle	Cycle number
Compression	Display of completed compression phase
Heating	Display of heating phase parameters
Threshold	Unavailable
Cooling	Unavailable
End of cycle	Unavailable
Current	Electrical consumption of STERIGERMS during heating phase
Tension	Tension value of the electrical network
Thick. waste product	Position of the piston (340mm corresponds to low position)

Window 15 - Heating

Threshold reached

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: 1 Compression Heating 23/05/2007 18:35:55 Threshold remain 12 23/05/2007 18:35:55 Cooling End of cycle	 Version 12L V4.031c	Current (A) 1 Tension (V) 230 Thick. waste product 53
		23/05/2007 18:36:01	

INFORMATION ZONES	SIGNIFICATION
Information	Display of detected malfunction (§4)
Cycle	Cycle number
Compression	Display of completed compression phase
Heating	Display of heating phase parameters
Threshold	Display of processing phase parameters
Cooling	Unavailable
End of cycle	Unavailable
Current	Electrical consumption of STERIGERMS during processing phase
Tension	Tension value of the electrical network
Thick. waste product	Thickness of the compressed waste product

Window 16 – Start threshold

Cooling

Information		Cycle: <input type="text" value="1"/>	
Liquid detected		Compression	Version 12L V4.031c
Waste product too thick		Heating	
Power outage		23/05/2007 18:37:30	
Low tension		Threshold	
Pressure too high		23/05/2007 18:37:30	
Cold liquid leakage		Cooling	Current (A) <input type="text" value="1"/>
		23/05/2007 18:37:30	Tension (V) <input type="text" value="230"/>
		End of cycle	Thick. waste product <input type="text" value="53"/>
		23/05/2007 18:37:37	

INFORMATION ZONES	SIGNIFICATION
Information	Display of detected malfunction (§4)
Cycle	Cycle number
Compression	Display of completed compression phase
Heating	Display of heating phase parameters
Threshold	Display of processing phase parameters
Cooling	Display of cooling phase parameters
End of cycle	Unavailable
Courant	Electrical consumption of STERIGERMS during cooling phase
Tension	Tension value of the electrical network
Thick. waste product	Thickness of the compressed waste product

Window 17 - Cooling

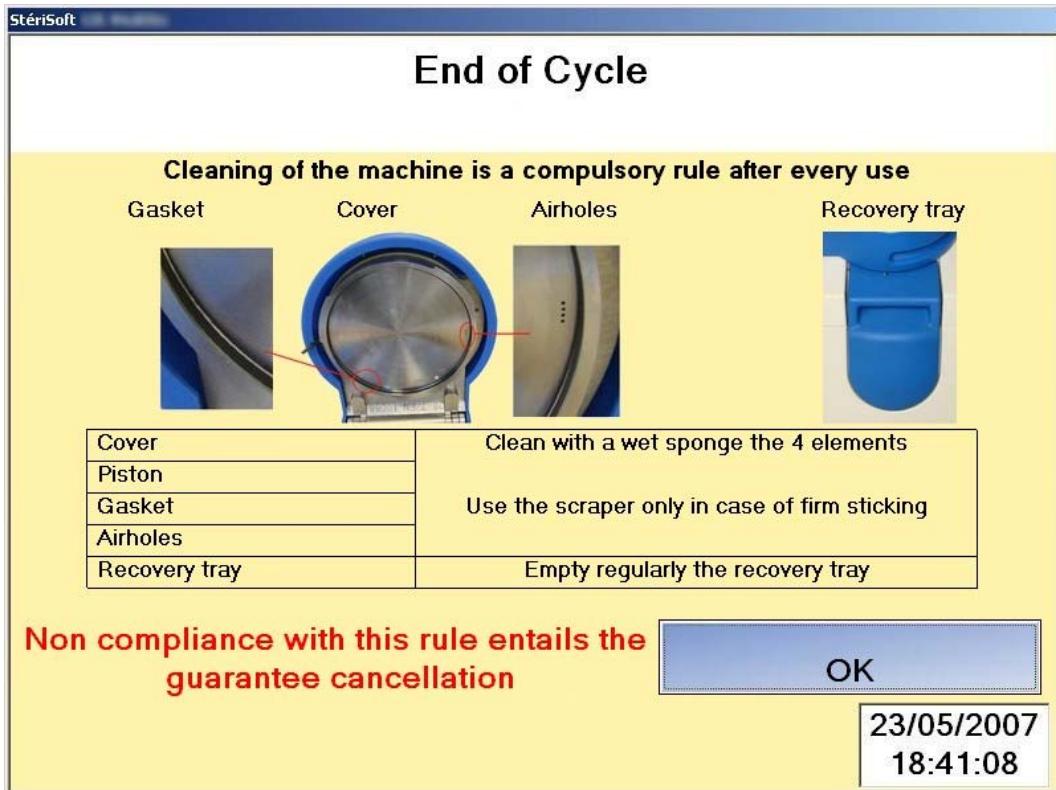
End of Cycle

Information Liquid detected Waste product too thick Power outage Low tension Pressure too high Cold liquid leakage	Cycle: <input type="text" value="1"/> Compression Heating 23/05/2007 18:41:03 Threshold 23/05/2007 18:41:03 Cooling 23/05/2007 18:41:03 End of cycle 23/05/2007 18:41:03	 Version 12L V4.031c	Current (A) <input type="text" value="1"/> Tension (V) <input type="text" value="230"/> Thick. waste product <input type="text" value="53"/>
		Waste has been processed Opening device	
23/05/2007 18:41:08			

TOUCH SCREEN KEYS	FUNCTIONS
Open the device	Go back to the 'Select an operation' window

INFORMATION ZONES	SIGNIFICATION
Information	Display of detected malfunction (§4)
Cycle	Cycle number
Compression	Display of completed compression phase
Heating	Display of heating phase parameters
Threshold	Display of processing phase parameters
Cooling	Display of cooling phase parameters
End of cycle	Display of end of cycle phase parameters
Waste has been processed	Display of processing result after cycle completion
Current	Electrical consumption of STERIGERMS after cycle completion
Tension	Tension value of the electrical network
Thick. waste product	Thickness of the compressed waste product

Window 18 – End of cycle



TOUCH SCREEN KEYS	FUNCTIONS
OK	Go back to the ' Select an operation ' window

Window 19 – Cleaning of the machine

**Machine error
Only administrator can enter**



Quit

Langues /
Languages

Enter

23/05/2007
18:42:32

Window 20 - Machine error Only administrator can enter

8. WARRANTY

The STERIGERMS contractual warranty shall not apply in case of non-observance of any of the instructions as set out in the User's Manual.

The device complies with the following European directives:

89/392/CEE dated 06/14/89 modified

73/23/CEE dated 02/19/73 modified

89/336/CEE dated 05/03/89 modified

